EQUIPMENT LIST "B" PROJECT DESCRIPTION PHASING CHART B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR. THIS PROJECT INVOLVES RECONSTRUCTION OF THE TRAFFIC SIGNAL AT THE UNIT QUANTITY DESCRIPTION ITEM NO. INTERSECTION OF MD 528 & PACIFIC AVENUE INCLUDING APS PUSHBUTTONS, NO PHASE CHANGE LED COUNTDOWN PEDESTRAIN SIGNAL HEADS, LED TRAFFIC SIGNAL HEADS MAINTENANCE OF TRAFFIC AND VIDEO DETECTION. MD 528 IS ASSUMED TO RUN IN A NORTH-SOUTH TEST PIT EXCAVATION REMOVAL OF EXISTING PERMANENT PAVEMENT LINE MARKINGS DIRECTION. GENERAL NOTES INTERSECTION OPERATION 1200 12 INCH WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LINES STANDARD TYPE A COMBINATION CURB AND GUTTER 12 INCH GUTTER PAN 8 INCH DEPTH LF 249 1. ALL EXISTING FOUNDATION TOPS WITHIN EXISTING SIDEWALK SHALL BE THIS INTERSECTION WILL OPERATE IN A NEMA FIVE-PHASE FULL-1,246 5 INCH CONCRETE SIDEWALK REMOVED 2" BELOW SIDEWALK GRADE AND NEW SIDEWALK SHALL BE INSTALLED TRAFFIC-ACTUATED MODE WITH ALTERNATE PEDESTRIAN PHASES FOR EΑ 26 12 INCH LED SIGNAL HEAD SECTION TO BE FLUSH WITH FINAL GRADE. THE NORTH AND SOUTH LEGS OF THE INTERSECTION, THE MD 528 LEFT/U 2 WIRE CENTRAL CONTROL UNIT TURNS OPERATE IN EXCLUSIVE -PERMISSIVE PHASING. EΑ 2. ALL PROPOSED FOUNDATION TOPS SHALL BE INSTALLED FLUSH WITH SIDEWALK 8 INCH LED SIGNAL HEAD SECTION EΑ CONTROLLER REQUIREMENTS AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON STATION & SIGNS LED 16 INCH COUNTDOWN PEDESTRIAN SIGNAL HEADS A FULL-TRAFFIC-ACTUATED EIGHT PHASE TRAFFIC SIGNAL CONTROLLER WITH 3. ACCESSIBLE PEDESTRIAN CONTROL EQUIPMENT SHALL BE DELIVERED TO THE MAST ARM POLE & 70 FT MAST ARM ANY 'T' DIMENSION 8024 TELEMETRY CABLE HOUSED IN A BASE MOUNTED CABINET SHALL BE FURNISHED SHA SIGNAL SHOP FOR TESTING AND PROGRAMMING PRIOR TO INSTALLATION. BREAKAWAY PEDESTAL POLE (ANY SIZE) 8028 BY SHA AND INSTALLED BY THE CONTRACTOR, VIDEO DETECTION INTERFACE CONTACT MR. EDWARD RODENHIZER AT 410-787-7652 TO COORDINATE. REMOVE & DISPOSE MATERIAL & EQUIPMENT PER ASSIGNMENT EQUIPMENT SHALL BE FURNISHED BY SHA. AN APS CENTRAL CONTROL UNIT TWIN MAST ARM POLE & 50 FT/70 FT MAST ARMS ANY 'T' DIMENSION SHALL BE FURNISHED BY THE CONTRACTOR AND INSTALLED BY SHA. 4. LOCATION OF ACCESSIBLE PEDESTRIAN SIGNAL PUSHBUTTONS MUST MEET VIDEO DETECTION CAMERA & CABLE LOCATION REQUIREMENTS OF MUTCD SECTION 4E.09 AND FIGURE 4E.2 AND THE 12 PAIR COMMUNICATION CABLE, SELF- SUPPORTING AND/OR JELLYFILLED SPECIAL NOTES NCHRP PUBLICATION, "ACCESSIBLE PEDESTRIAN SIGNALS: GUIDE TO BEST 3 INCH ELECTRICAL CONDUIT-PVC RISER PRACTICE." IF NOT MET, THE CONTRACTOR IS TO STOP WORK ON PUSHBUTTON DISCONNECT, PULL-BACK & REROUTE CABLES LOCATIONS UNTIL A DESIGN WAIVER IS OBTAINED, APPROVED BY THE APS WILL FUNCTION AS FOLLOWS: SCHEDULE 80 RIGID PVC CONDUIT UP TO 4 INCHES - BORED DIRECTOR, OFFICE OF TRAFFIC AND SAFETY. SCHEDULE 80 RIGID PVC CONDUIT UP TO 4 INCHES - TRENCHED 280 LF TO CROSS COASTAL HIGHWAY: 32 5. PUSHBUTTONS ARE TO BE LOCATED SO THAT THEY CAN BE ACTIVATED BY A WOOD SIGN SUPPORTS UP TO 4 X 6 INCHES A. WHEN PEDESTRIAN LOCATES AND PRESSES PUSHBUTTON PERSON IN A WHEELCHAIR REACHING LESS THAN 18" FROM A 60" X 60" LEVEL DETECTABLE WARNING SURFACES 8045 FOR AN EXTENDED TIME, THE PUSHBUTTON UNIT MESSAGE SF 54 INSTALL GROUND MOUNT AND/OR OVERHEAD SIGN LANDING AREA WITH A CROSS SLOPE OF LESS THAN OR EQUAL TO 2%. WILL BE "WAIT TO CROSS COASTAL AT PACIFIC, WAIT," 480 NO, 6 AWG STRANDED BARE COPPER GROUND WIRE 8048 6. THE 10' SEPARATION BETWEEN PUSHBUTTONS IS TO BE MEASURED FROM FACE WEATHER HEAD, 3 INCH B. WHEN WALK PHASE BEGINS, THE MESSAGE WILL BE A RAPID OF PUSHBUTTON TO FACE OF PUSHBUTTON, NOT CENTER TO CENTER OF POLE. ELECTRICAL UTILITY SERVICE EQUIPMENT 120/240 VOLTS 60 AMPS EΑ TICK WHICH WILL LAST FOR THE DURATION OF THE WALK PHASE. ELECTRICAL CABLE 1-CONDUCTOR NO. 4 AWG-THHN/THWN EΑ 100 7. PUSHBUTTON ARROWS AND SIGNS ARE TO BE ORIENTED PARALLEL TO THE FURNISH AND INSTALL ELECTRICAL HANDHOLE CROSSING FOR WHICH THEY ARE INTENDED. 450 ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 AWG) ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG) 8. ANY HARDWARE NECESSARY FOR THE INSTALLATION OF RELOCATED TRAFFIC LF ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 AWG) SIGNAL EQUIPMENT SHALL BE INCIDENTAL TO THE PERTINANT RELOCATE PAY CONTACT PERSONS FOR DISTRICT #1 ARE AS FOLLOWS: EΑ INSTALL CONTROLLER AND CABINET - BASE MOUNT 8073 FΑ RELOCATE EXISTING SIGN MR. GREG HOLSEY MR. KENNETH CIMINO 9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL SIGNAL CABLE MR. KENNETH CIMINU

ASSISTANT DISTRICT ENGINEER—TRAFFIC PHONE: (410) 677—4020 TO THE APPROPRIATE TERMINALS AND PROPERLY LABEL EACH CABLE. PHONE: (410) 677-4040 EQUIPMENT LIST "C" 10. THE CONTRACTOR SHALL COORDINATE WITH DISTRICT 1 TRAFFIC TO COORDINATE MR. JAMES WRIGHT MR. BRUCE POOLE TRAFFIC SIGNAL TURN OFF AND TEMPORARY STOP CONTROL. CONTRACTOR SHALL ASSISTANT DISTRICT ENGINEER - MAINT. DISTRICT UTILITY ENGINEER C. EQUIPMENT TO BE REMOVED BY THE CONTRACTOR AND DELIVERED TO THE STATE PHONE: (410) 677-4082 PHONE: (410) 677-4010 VERIFY ANY EVENT OR DATE RESTRICTIONS PRIOR TO TRAFFIC SIGNAL TURN HIGHWAY ADMINISTRATION, 7491 CONNELLEY DRIVE, HANDVER, MARYLAND 21076. MR, TERRY MCGEAN SHA FORCES SHALL REMOVE THE CONTROLLER AND ALL AUXILIARY EQUIPMENT FROM THE CONTROLLER TOWN OF OCEAN CITY - CITY ENGINEER 11.UNDERGROUND UTILITIES SHOWN ON THESE PLANS ARE SCHEMATIC ONLY AND MAY CABINET. THE CABINET AND ALL OTHER MATERIALS TO BE REMOVED BY THE CONTRACTOR SHALL BECOME PHONE: (410) 289-8845 NOT BE COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING "MISS PROPERTY OF THE CONTRACTOR. CONTACT PERSONS FOR OOTS ARE AS FOLLOWS: UTILITY" PRIOR TO CONSTRUCTION SO THAT ALL UTILITIES MAY BE LOCATED IN THE FIELD. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN THE MR. JOHN GOVER UTILITIES AND THE TRAFFIC SIGNAL WILL OCCUR, THE CONTRACTOR SHALL NOTIFY MR. ROBERT SNYDER OFFICE OF HIGHWAY DESIGN MR. RICHARD L. DAFF, SR. ASSISTANT DIVISION CHIEF THE ENGINEER IMMEDIATELY SO THAT THE CONFLICT MAY BE RESOLVED. CHIFF, TRAFFIC OPERATIONS PHONE: (410) 545-8766 TRAFFIC OPERATIONS DIVISION PHONE: (410)787-7630 12. THE CONTRACTOR SHALL VERIFY ALL POLE LOCATIONS PRIOR TO INSTALLATION. PHONE: (410)787-7630 F,G,Q,ZMR. EUGENE BAILEY MR. ED RODENHIZER 13. VIDEO DETECTION CAMERA LOCATION/ALIGNMENT SHALL BE COORDINATED CHIEF, SIGN OPERATIONS CHIEF, SIGNAL OPERATIONS WITH THE ENGINEER. PHONE: (410)787-7676 PHONE: (410)787-7650 F,G,Q~ 14. THE CONTRACTOR SHALL CAP AND ABANDON CONDUIT FEEDING SIGNAL FQUIPMENT THAT IS REMOVED. EQUIPMENT LIST "A" 15.ADA REQUIRES THAT ANY ABRUPT CHANGE IN ELEVATION IN SIDEWALK BE LESS $F,G,H,Q \subset$ A, EQUIPMENT TO BE SUPPLIED BY THE SHA. THAN 1/4". UNIT QUANTITY DESCRIPTION ITEM NO. 16. VIDEO DETECTION CAMERAS FOR WEST APPROACH SHALL BE CHECKED CONTROLLER ASC II WITH TELEMETRY IN THE FIELD BY THE ENGINEER PRIOR TO PERMANENT INSTALLATION TO F,Q∼ ELIMINATE ANY POSSIBLE TELECOMMUNICATION CABLE CONFLICTS. CONTROLLER CABINET, SIZE 6 VIDEO DETECTION INTERFACE EQUIPMENT: 1-4 CAMERAS 17. THE CONTRACTOR SHALL ENSURE ALL UNDERGROUND UTILITIES ARE MARKED PRIOR SHEET ALUMINUM MAST ARM / POLE MOUNTED SIGN TO TRAFFIC SIGNAL STAKEOUT. THE CONTRACTOR SHALL ENSURE ALL UNDERGROUND 4 - D-3(1) (76"X16")UTILITIES ARE MARKED AND STAKEOUT HAS OCCURED PRIOR TO TRAFFIC SIGNAL 1 - D-3(1) (72"X16") TURN OFF. 1 - R10-12(1) (30"X36") TOD NO: XX224-11 4 - R10-3(1) (9"X15")18.ALL UNUSED CABLE SHALL BE REMOVED AND DISPOSED. SHA NO: WO311A54/C54 MD 528 @30th Street/MD 528 @ A,B,C,S~ STATE OF MARYLAND Pacific Avenue DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION OFFICE OF TRAFFIC & SAFETY EXISTING TRAFFIC ENGINEERING DESIGN DIVISION WIRING KEY OVERHEAD I/C MD 528 (COASTAL HWY.) AT PACIFIC AVE. TO 94RD STREET $J, N, Z_{\neg I}$ A,B,S--A,B,D,F,G,I,, EXISTING 12-PAIR COMMUNICATION CABLE I,J,K,L 2-CONDUCTOR ELECTRICAL CABLE T K,L,M,N,O,P,Ž OCEAN CITY, MARYLAND (NO. 19 AWG) SELF-SUPPORTING OVERHEAD TO (ND: 14 AWG) BE DISCONNECTED, PULLED BACK & REROUTED GENERAL INFORMATION SHEET 5-CONDUCTOR ELECTRICAL CABLE REVISIONS OVERHEAD I/C 12-PAIR COMMUNICATION CABLE (NO. 14 AWG) (NO. 19 AWG) SELF-SUPPORTING OVERHEAD TO 85TH STREET SCALE NONE DATE JUNE 2011 CONTRACT NO. XX2245185 7-CONDUCTOR ELECTRICAL CABLE A,B,D RELOCATED UNDERGROUND POWER 4K,0,Z (NO, 14 AWG) RKSK WORCESTER SERVICE BY DELMARVA COUNTY DESIGNED BY BJG LQ,R,S,T,U,Z 1-CONDUCTOR ELECTRICAL CABLE 23092|803.|7 LOGMILE DRAWN BY BJG STRANDED BARE COPPER GROUND WIRE POLE #- 62332 94575 (NO. 4 AWG) 3 RUNS LF,G,I,J,M Rummel, Klepper & Kahl, LLP LA,B,D,F,G,I,J,K,L,M N,O,P,R,S,Q,T,U,V CHECKED BY _____BLB_ TIMS NO. (NO. 6 AWG) 81 MOSHER STREET | BALTIMORE, MD 21217 VIDEO DETECTION CAMERA CABLE TOD NO. _____ PH: (410) 728-2900 FAP NO. PROPOSED GROUND ROD ∠A,B,D,R,S,Z (3-CONDUCTOR, NO. 18 AWG) Engineers Construction Managers Planners Scientists SHEET NO. 5 OF 8 TS NO. 2261B-GI DRAWING SG-4 OF 4. PLOTTED: Tuesday, June 28, 2011 AT 11:51 AM | FILE; \\Rikm\v2007\2007\07056_shahdd\Task06_MD 528 ADA\CADD\Pacific Ave\pGI-P000_Pacific.dgh